SOFTWARE TEST REPORT ELVIS 1.3.2.0

Introduction.

Enhanced Linked Virtual Information System (ELVIS) segment for 1.3.2.0 for UB 3.0.1.6G was received by NN-T&E on 20 November 1996 in segment form. This particular build was for the Solaris using the GCCS 2.2 Kernel 2.2.0.5 hosting UB 3.0.1.6G applications and UBPATCH 3.0.1.6GP2.

Configuration of the equipment test suite was as follows:

Solaris SPARC 5 setup with clean 2.2 load serving as EM client to a Solaris SPARC 20 with clean load 2.2 loaded with UB 3.0.1 6G and the UBPATCH 3.0.1.6GP2. The SPARC 20 was configured as Map server, and TDBM Master. The EM server also had a HP as a NIS client loaded with the clean load GCCS 2.2 kernel and loaded with UB 3.0.1.6G and UBPATCH 3.0.1.6GP2.

In addition, a Solaris SPARC 5 Emserver was loaded using GCCS 2.2 Kernel to Upgrade from 2.1.3 5. Following the upgrade it was loaded with UB 3.0.1.6G and UBPATCH 3.0.1.6GP2 applications. This particular system had been originally loaded with the ELVIS 1.3.0.2 application. It was then upgraded using the 1.3.2.0 ELVIS segment.

Test Overview and Results

Test loading original ELVIS 1.3.2.0: Segment installed properly

Test Loading Upgrade: Segment Installed properly. All user accounts retained. Custom Maps were not retained. Segment starts and runs properly: System accessed via Netscape 2.0 from GCCS workstation and Netscape 3.0 from a 486DX4 100 PC Virtual Command center was accessible as were Custom Maps, Communications, Track searches. All special maps were accessible from Maps directory. These included CIB, ARDG, DTED, CRDG, World Vector shoreline, World data Base II and Standard Maps.

User was able to save and recall custom maps.

User was able to operate all keys in the Virtual Command Center.

User was able to configure all buttons in Virtual Command Center such as, CMD info, OPS, WX, and INTELL as Sysadmin.

User was able to access Communications and read message traffic.

User was able configure all Plot Controls

All designed mapping functions were functional in Sysadmin and these functions were then available to every User.

User was able to access and activate all overlays from host.

User unable to modify combinations of ELVIS Chart resolutions sizes above medium when number of Chart Grab environment variables was above 6. Selecting high would not allow normal UB Chart functionality on host to launch properly upon initial login without a Restart Chart action. Following combinations annotated with Pass or Fail

Chart Grab 4 Lores----Pass

Chart Grab 4 Medres--Pass

Chart Grab 4 Highres-Fail

Chart Grab 6 Lores----Pass

Chart Grab 6 Medres--Pass

Chart Grab 6 Highres-Fail

Testing any configuration on server using Highres would fail to allow TACPLOT of server to launch properly.

ELVIS testing used Netcape versions 2.0 and 3.0 as Web Browsers only. Microsoft Internet Explore not used.

All functions under Sysadmin page were accessible and could be configured. Maps configured here were able to be accessed by individual users.

Test Evaluation and Recommendations

As designed, ELVIS provides the capability to view tactical information in geographic plots' resident in the Global Command and Control System (GCCS) host system. Under high stress conditions ELVIS performed as designed. Severe interference in normal operations of the server was not detected. The only noted discrepency concerned the failure of UB Chart functionality to launch upon initial login when manual configuration changes had been made to the software from UNIX. The problem has a workaround (Restart Chart) and does not appear with the standard loaded configuration

As a low cost alternative to the Standard GCCS workstation (SPARC 5-20) ELVIS effectively provides connectivity to Command and Control data bases for the decision maker. As the first iteration of an ELVIS build formally introduced under the GCCS software structure, I recommend release to the field for further use and testing by the user.